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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/062,957	(	01/31/2002	Fangjiang Guo	88164.000002	4571	
23387	7590	12/24/2003		EXAMI	EXAMINER	
Stephen B. Harter, Secre				GRILES, BE	THANY L	
1600 Bausch & Lomb Place				ART UNIT	PAPER NUMBER	
Rochester, N	VY 14604	4-2711	3643			

DATE MAILED: 12/24/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
•		10/062,957	GUO, FANGJIANG				
A.	Office Action Summary	Examiner	Art Unit				
		Bethany L. Griles	3643				
Period f	The MAILING DATE of this communication ap	pears on the cover sheet with the	correspondence address				
A SH THE   - Extended after - If the   - If NC   - Failu   - Any I	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a repulp period for reply is specified above, the maximum statutory period irre to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be to ly within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDON	imely filed  by swill be considered timely.  the mailing date of this communication.  ED (35 U.S.C. § 133).				
	Responsive to communication(s) filed on 02 E	Pecember 2003.					
		action is non-final.					
3)[	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
4)🖂	Claim(s) 1-34 and 36-51 is/are pending in the	application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
6)⊠ 7)□	Claim(s) is/are allowed.  Claim(s) <u>1-34</u> , <u>36-51</u> is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/o	or election requirement.					
Applicati	ion Papers						
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	cepted or b) objected to by the drawing(s) be held in abeyance. Settion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).				
	under 35 U.S.C. §§ 119 and 120						
a)  * § 13)□ A si 3 a 14)□ A	Acknowledgment is made of a claim for foreig  All b) Some * c) None of:  1. Certified copies of the priority document  2. Certified copies of the priority document  3. Copies of the certified copies of the priority document  application from the International Bureat  Bee the attached detailed Office action for a list  acknowledgment is made of a claim for domest  ince a specific reference was included in the firat  7 CFR 1.78.  ) The translation of the foreign language process  acknowledgment is made of a claim for domest  acknowledgment is made of a claim for domest  afterence was included in the first sentence of the	ts have been received. Its have been received in Applica ority documents have been received (PCT Rule 17.2(a)). If of the certified copies not receive priority under 35 U.S.C. § 119 st sentence of the specification of the priority under 35 U.S.C. § 120 povisional application has been reside priority under 35 U.S.C. §§ 120 priority under 35 U.S.C. §	tion No  yed in this National Stage  red. (e) (to a provisional application) or in an Application Data Sheet.  sceived. 0 and/or 121 since a specific				
Attachmen							
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

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#### **DETAILED ACTION**

## Response to Arguments

1. Applicant's arguments filed 12/2/2003 have been fully considered but they are not persuasive. The addition of the limitation of passing the animal through an ingress/egress portion of the stall is an inherent feature of any structure into which an animal is sheltered, and it is disclosed in the cited prior art that an animal can be rearwardly guided into the structure.

2. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 8-9 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Nelson ('280).

In regards to **claim 1**, Nelson teaches a method of presenting an animal to be milked comprising the steps of rearwardly loading the animal into one of a plurality of milking stalls and forwardly unloading the animal from the one of the plurality of milking stalls. Each milking stall has a unique exit path extending from the milking stall to a released area (see column 2, lines 53-60). Nelson further discloses passing the animal through an ingress/egress end of the stall (see fig 1)

Regarding **claim 2**, Nelson teaches the claimed method further comprising milking the animal prior to forwardly unloading the animal from the one of the plurality of milking stalls including passing the animal through an ingress/egress end of the stall (see fig 1).

In regards to **claim 3**, Nelson teaches the method further comprising passing the animal through an ingress/egress gate (20) upon rearwardly loading the animal into the one of the plurality of milking stalls.

Regarding **claim 8**, Nelson teaches a method further comprising locating an operator pit (12) adjacent a rear end of the milking stall.

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In regards to claim 9, Nelson teaches a method wherein the unique exit path associated with one of the plurality of stalls is parallel to a unique exit path associated with a second one of the milking stalls. See Figure 1.

Regarding claim 11, Nelson teaches a method further comprising simultaneously rearwardly loading a second animal into a second one of the plurality of stalls.

Claim 32-33, 36-38, 41-45 and 47-48 are rejected under 35 U.S.C. 102(b) as being anticipated by Waybright.

In regards to claim 32, Waybright teaches a method of presenting an animal to be milked in a milking parlor comprising translating a first animal transport cart (40) along a predetermined path (10, 12) relative to a plurality of milking stalls (32) to operably locate the transport cart (40) with respect to an unoccupied milking stall, and moving the animal into the stall.

Regarding claim 33, Waybright teaches a method further comprising a released area (36) adjacent to the plurality of milking stalls.

In regards to claim 36, Waybright teaches a method further comprising translating a second animal transport cart (40) relative to the plurality of milking stalls (32).

In regards to claim 37, Waybright teaches a method further comprising loading a plurality of animals on the first animal transport cart (40).

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In regards to **claim 38**, Waybright teaches a method further comprising moving an ingress/egress gate (52) from an open position to a closed position upon rearwardly loading the animal into the milking stall. See column 8, lines 67-68.

In regards to **claim 41**, Waybright teaches a method further comprising urging the animal rearwardly into the milking stall by a distance independent of an adjacent milking stall.

Regarding **claim 42**, Waybright teaches a milking parlor comprising a milking stall (32) and a transport cart (40) translatable relative to the milking stall having an animal ingress/egress end 18 (32) between a first position aligned with the milking stall and a second position spaced from the milking stall.

In regards to **claim 43**, Waybright teaches a milking parlor comprising an ingress/egress gate (52) connected to the milking stall. The gate is moveable between a closed position and an open position.

Regarding **claim 44**, Waybright teaches a milking parlor wherein the ingress/egress gate is a lift gate.

Regarding **claim 45**, Waybright teaches a milking parlor wherein the ingress/egress gate rotates around a horizontal axis.

In regards to **claim 47**, Waybright teaches a milking parlor wherein the milking stall includes a closed end and further comprises an operator pit (20) adjacent the ingress/egress end.

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Regarding **claim 48**, Waybright teaches a milking parlor wherein the milking stall includes an open end and further comprises a released area (36) adjacent the ingress/egress end.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4 and 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nelson ('280) in view of van der Lely ('837).

In regards to **claim 4**, Nelson ('280) teaches the claimed method except for specifying a milking robot. However, van der Lely teaches a method of milking which aligns a robot with the milking stall prior to unloading the animal from the milking stall. Therefore, one having ordinary skill in the art would have found it obvious to modify the stall of Nelson, to include a milking robot, as taught by van der Lely, in order to provide an automated system, thereby decreasing the amount of work for a human operator.

In regards to claim 6, Nelson ('280) teaches the claimed method except for monitoring animal specific data. However, van der Lely teaches a method of milking,

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which monitors animal specific data prior to unloading the animal from the milking stall. Therefore, one having ordinary skill in the art would have found it obvious to modify the method of Nelson, to include monitoring of animal data, as taught by van der Lely, in order to ensure each animal is milked correctly.

Regarding **claim 7**, Nelson, as modified, teaches a method further comprising matching the monitored animal specific data with a corresponding identified animal.

Claims 5, 12-14, 16, 19, 21-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nelson ('280) in view of Waybright.

In regards to **claim 5**, Nelson teaches the claimed method except for specifying the animal to be loaded onto a transport car before being milked. However, Waybright teaches a method for presenting an animal to be milked where the animal is loaded onto a car prior to loading the animal into the milking stall. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify the method taught by Nelson, to include loading the animal on a transport car, as shown by Waybright, in order to efficiently move the animals to the milking stalls in order to save time during the milking process, and further that the animal would have to be moved from a transport cart in order to enter the milking stall.

In regards to claim 12, Nelson teaches a method of presenting animals to be milked comprising rearwardly loading the animal into a milking stall and then forwardly unloading the animal from the milking stall. Nelson fails to teach the animal unloaded from a moveable transport cart before entering the stall. However, Waybright teaches a

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method for milking an animal where the animal is unloaded from a moveable cart into the milking stall. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify the method taught by Nelson, to include unloading the animal from a moveable transport cart, as shown by Waybright, in order to efficiently move the animals to the milking stalls in order to save time during the milking process, and to release the animals to a common release area would be obvious for the same reason.

Regarding **claim 13**, Nelson, as modified, teaches the claimed method further comprising milking the animal prior to forwardly unloading the animal from the one of the plurality of milking stalls.

In regards to **claim 14**, Nelson, as modified, teaches the method further comprising passing the animal through an ingress/egress gate (20) upon rearwardly (tail first) loading the animal into the one of the plurality of milking stalls.

In regards to **claim 16**, Nelson, as modified, teaches the method further comprising loading the animal to be milked onto a transport cart prior to rearwardly loading the animal into the milking stall.

Regarding **claim 19**, Nelson, as modified, teaches a method further comprising locating an operator pit (12) adjacent a rear end of the milking stall.

In regards to **claim 21**, Nelson, as modified, teaches a method further comprising loading a plurality of animals onto the transport cart.

In regards to claim 22, Nelson teaches a method of presenting animals to be milked comprising rearwardly loading a first animal into a milking stall. Nelson fails to

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teach the animal loaded onto a transport cart before entering the stall. However, Waybright teaches a method for milking an animal wherein the first animal is loaded onto a moveable transport cart and then the cart translates to align with an unoccupied milking stall. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify the method taught by Nelson, to include a moveable transport cart, as shown by Waybright, in order to efficiently move the animals to the milking stalls in order to save time during the milking process.

In regards to **claim 23**, Nelson, as modified, teaches a method further comprising translating the transport cart along a direction transverse to a longitudinal dimension of the milking stall.

Regarding **claim 24**, Nelson, as modified, teaches the claimed method further comprising forwardly unloading the first animal from the milking stall.

Regarding **claim 25**, Nelson, as modified, teaches the claimed method further comprising forwardly unloading the first animal from the milking stall into a released area.

Regarding **claim 26**, Nelson, as modified, teaches the claimed method further comprising forwardly unloading the first animal from the milking stall into a released area along a unique path.

Regarding **claim 27**, Nelson, as modified, teaches the claimed method further comprising loading a second animal onto the transport cart prior to unloading the first animal. See Waybright disclosure.

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Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nelson ('280) in view of Braum.

In regards to **claim 10**, Nelson teaches the claimed method except for specifying moving a moveable platform from a spaced first position to a second position adjacent a rear end of the milking stall. However, Braum teaches a method for presenting an animal to be milked comprising moving a moveable platform (198) from a spaced first position to a second position adjacent a rear end of the milking stall. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify the method taught by Nelson, to include a moveable platform, as shown by Braum, in order for an operator or milking robot to have convenient access to the animal, as well as being comfortably seated during the process.

Claims 15, 17-18 and 29-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nelson ('280) in view of Waybright and further in view of van der Lely ('837).

In regards to **claim 15**, Nelson ('280), as modified by Waybright, teaches the claimed method except for specifying a milking robot. However, van der Lely teaches a method of milking which aligns a robot with the milking stall prior to unloading the animal from the milking stall. Therefore, one having ordinary skill in the art would have found it obvious to modify the stall of Nelson, as modifie, to include a milking robot, as taught by van der Lely, in order to provide an automated sistem, thereby decreasing the amount of work for a human operator.

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In regards to **claim 17**, Nelson ('280), as modified by Waybright, teaches the claimed method except for monitoring animal specific information. However, van der Lely teaches a method of milking, which monitors animal specific information prior to unloading the animal from the milking stall. Therefore, one having ordinary skill in the art would have found it obvious to modify the method of Nelson, as modified, to include monitoring of animal information, as taught by van der Lely, in order to ensure each animal is milked correctly.

Regarding **claim 18**, Nelson, as modified, teaches a method wherein monitoring the animal specific information includes machine reading a tag connected to the animal (See van der Lely, column 5, lines 30-40).

In regards to **claim 29**, Nelson ('280), as modified by Waybright, teaches the claimed method except for specifying a milking robot. However, van der Lely teaches a method of milking which aligns a robot with the milking stall prior to unloading the animal from the milking stall. Therefore, one having ordinary skill in the art would have found it obvious to modify the stall of Nelson, as modifie, to include a milking robot, as taught by van der Lely, in order to provide an automated system, thereby decreasing the amount of work for a human operator.

In regards to **claim 30**, Nelson ('280), as modified by Waybright, teaches the claimed method except for acquiring animal specific data. However, van der Lely teaches a method of milking, which monitors animal specific data prior to milking the animal. Therefore, one having ordinary skill in the art would have found it obvious to

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modify the method of Nelson, as modified, to include monitoring of animal information, as taught by van der Lely, in order to ensure each animal is milked correctly.

Regarding **claim 31**, Nelson, as modified, teaches the method further comprising reading a radio frequency identification tag on the first cow when the cow is in the transport cart.

Claims 20 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nelson ('280) in view of Waybright and further in view of Braum.

In regards to **claim 20**, Nelson, as modified by Waybright, teaches the claimed method except for specifying moving a moveable platform from a spaced first position to a second position adjacent a rear end of the milking stall. However, Braum teaches a method for presenting an animal to be milked comprising moving a moveable platform (198) from a spaced first position to a second position adjacent a rear end of the milking stall. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify the method taught by Nelson, as modified, to include a moveable platform, as shown by Braum, in order for an operator or milking robot to have convenient access to the animal, as well as being comfortably seated during the process.

In regards to **claim 28**, Nelson, as modified by Waybright, teaches the claimed method except for specifying moving a moveable platform from a spaced first position to a second position adjacent a rear end of the milking stall. However, Braum teaches a method for presenting an animal to be milked comprising moving a moveable platform

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(198) from a spaced first position to a second position adjacent a rear end of the milking stall. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify the method taught by Nelson, as modified, to include a moveable platform, as shown by Braum, in order for an operator or milking robot to have convenient access to the animal, as well as being comfortably seated during the process.

Claim 34, 39-40 and 49-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Waybright in view of van der Lely ('837).

In regards to claim 34, Waybright teaches the claimed method except for specifying a robotic arm operably located in the milking stall. However, van der Lely teaches a method of milking which aligns a robot with the milking stall. Therefore, one having ordinary skill in the art would have found it obvious to modify the method of Waybright, to include robotic arm, as taught by van der Lely, in order to provide an automated milking system, thereby decreasing the amount of work for a human operator.

In regards to **claim 39**, Waybright teaches the claimed method except for acquiring data specific to a given animal. However, van der Lely teaches a method of milking, which monitors animal specific data prior to milking. Therefore, one having ordinary skill in the art would have found it obvious to modify the method of Waybright, to include acquiring of animal data, as taught by van der Lely, in order to ensure each animal is milked correctly.

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Regarding **claim 40**, Waybright, as modified, in the previous claim teaches a method comprising a radio frequency identification reader (see van der Lely disclosure). It would have been obvious to one having ordinary skill in the art at the time of the invention to connect the reader to the cart, since it has been held that rearranging parts of an invention involves only routine skill in the art. (*In re Japikse*, 86 USPQ 70).

In regards to **claim 49**, Waybright teaches the claimed method except for specifying a robotic arm operably located in the milking stall. However, van der Lely teaches a method of milking which aligns a robot with the milking stall. Therefore, one having ordinary skill in the art would have found it obvious to modify the method of Waybright, to include robotic arm, as taught by van der Lely, in order to provide an automated milking system, thereby decreasing the amount of work for a human operator.

Regarding **claim 50**, Waybright, fails to teach an RFID reader connected to the transport cart. However, van der Lely teachesa milking parlor having an RFID in order to monitor animal specific data prior to milking. Therefore, one having ordinary skill in the art would have found it obvious to modify the milking parlor of Waybright, to include an RFID, as taught by van der Lely, in order to ensure each animal is milked correctly. Further, it would have been obvious to one having ordinary skill in the art at the time of the invention to connect the reader to the cart, since it has been held that rearranging parts of an invention involves only routine skill in the art. (*In re Japikse*, 86 USPQ 70).

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Claim 46 is rejected under 35 U.S.C. 103(a) as being unpatentable over Waybright

Regarding **claim 46**, Waybright teaches a milking parlor wherein the ingress/egress gate rotates. However, Waybright does not teach the gate to rotate around a vertical axis. However, one having ordinary skill in the art at the time of the invention would have found it obvious to change the direction of rotation, since it has been held that rearranging parts of an invention involves only routine skill in the art. (*In re Japikse*, 86 USPQ 70).

Claim 51 is rejected under 35 U.S.C. 103(a) as being unpatentable over Waybright in view of Braum.

In regards to **claim 51**, Waybright teaches the claimed invention except for specifying a moveable platform, moveable from a spaced first position to a second position adjacent a rear end of the milking stall. However, Braum teaches a milking parlor comprising a moveable platform (198) moveable from a spaced first position to a second position adjacent a rear end of the milking stall. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify the parlor taught by Nelson, to include a moveable platform, as shown by Braum, in order for an operator or milking robot to have convenient access to the animal, as well as being comfortably seated during the process.

#### Conclusion

3. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bethany L. Griles whose telephone number is 703.305.1839. The examiner can normally be reached on Monday through Friday 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter M. Poon can be reached on 703.308.2574. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703.306.5771.

Examiner Art Unit 3643

blg

Peter M. Poon Supervisory Patent Examiner

Technology Center 3600